

# PROCEEDING

## ASEAN Academic Community International Conference



Venturing into ASEAN Community 2015:  
Bringing up the Cutting Edge of Science & Technology  
December 7-8, 2012. BP Grand Tower hotel, Hat Yai, Thailand



Organized by:  
Indonesian Student Association in Thailand  
Perhimpunan Mahasiswa Indonesia di Thailand (PERMITHA)



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## PREFACE

Welcome to the ASEAN Academic Society International Conference (AASIC) 2012. This year's conference present over 80 presentations on all facets of Health science sectors, Recent Science, Technology and Environmental Development, and Social science and humanities. The conference is through symposium sessions, scientific platform sessions, and poster presentations. In addition, a cultural show compiled in gala dinner program and city tour is another part to share more fruitful communication.

We are not only share an ASEAN rich in cultural diversity but also research and conference collaboration of Healthy, Socially and Humanities sciences. The theme of the AASIC 2012 is "Venturing into the ASEAN Community 2015: Bringing Up the Cutting Edge of Science and Technology" it recognized this reality by offering participants the opportunity to explore how research and practice can promote global communication while maintaining that diversity. Welcoming the ASEAN Community (AC) obtaining a new light on the detailing of the work that has been done in the case of recognized the roles and responsibilities of the students and professionals. ASEAN Community is most importantly to enhance the competitive strength of each ASEAN countries in the arena of global economy.

A conference does not occur without draws upon the time, efforts and skills of a wide range of people. I owe a debt of gratitude to the PERMITHA (Perhimpunan Mahasiswa Indonesia di Thailand) members as Organizing Committee who worked so hard to realize the objective of this conference. Experience and time sharing from reviewer in limiting time is also gratefully acknowledged.

These conference also supported well by Embassy of Republic of Indonesia – Bangkok, we forward an appreciation for Dr. Yunardi (Education and Culture Attaché) for his efforts and support. We are grateful acknowledge, Asst. Professor Ram Yamsaengsung who linking us with Prince of Songkla University Sponsorship.

Eventually, I would like to express gratitude for all committee members PERMITHA Prince of Songkla University (PSU) who have guided me through the maze of organizing this conference.

I wish all of the Conference participants wholeheartedly the fruitful debates and successful presentations. I hope you enjoy the Conference! Have a nice stay in Hatyai.

Hendra Kurniawan, MD  
Chair

## PREFACE

Dear Distinguished Delegates and Guests,

On behalf of the Embassy of Republic of Indonesia in Bangkok, I would like to take this opportunity to warmly welcome our distinguished delegates and guests to the ASEAN Academic Community International Conference (AACIC 2012) held during July 7-8, 2012 in Hat Yai, Thailand. The conference has become an important annual scientific tradition of the Indonesian Student Society in Thailand for several years and it was aimed at bringing Indonesian graduate students studying in ASEAN countries together into an academic forum. However, the idea of academic gathering limited to Indonesian graduate students is deemed no longer relevant within the framework of ASEAN Community 2015, promoting greater intra-ASEAN people mobility. The present conference is therefore expanded to become a pivotal meeting point to enhance people to people contact among academic community of ASEAN and beyond.

This proceeding records more than 80 reviewed papers presented at the conference. The main conference theme ‘venturing into the ASEAN Community 2015: bringing up the cutting edge of science and technology.’ As within the next few years, the South East Asian region will become a single market and production base under the context of ASEAN Community, advances in science and technology will play a vital role to bring the area into a more competitive region. The main goal of this conference is to provide an international scientific forum for exchange of new ideas among academic community of multi-disciplinary backgrounds. The conference has solicited and gathered research papers related to all aspects in health sciences, science and technology and social sciences. After their rigorous review process, the submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference, and of course, I thank all of the participants who make this conference possible.

Last but not least, I personally would like to thank you to the Organizing Committee who have sacrificed much of their time and energy to make the event a success. I am also grateful to all sponsors, Garuda Indonesia-the Indonesian Airline, Polytron Thailand Co. Ltd, IMTGT Studies Centre of Prince Songkla University, and Prince Songkla University for their significant contribution to the success of AACIC 2012. Finally, I would like to wish you success in your technical presentations and social networking. I hope you have unique, rewarding and enjoyable days in Hat Yai, Thailand.

With warmest regards,

Dr. Yunardi

Education and Culture Attaché

Embassy of Republic of Indonesia – Bangkok

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